

DB 121 LNPETRRPVLVYTHGGXFLIGENHDMGPDYFIKKVYVLINIOYRLGALGFLSLNSED 180  
 OY 181 NPGNAGLDQVYALRMKNNKNCANGNDNTITVEGESAGAATHYMLTEOTRGLETHRG 240  
 DB 181 NPGNAGLDQVYALRMKNNKNCANGNDNTITVEGESAGAATHYMLTEOTRGLETHRG 240  
 OY 241 ILMGNAICPMANTOCORAFETLAKYKGEEDNDKVDLEFLMKANPDOLITKEEKLTL 300  
 DB 241 ILMGNAICPMANTOCORAFETLAKYKGEEDNDKVDLEFLMKANPDOLITKEEKLTL 300  
 OY 301 BEETNKVMPFGPVEPYOTADCVLPKHPREKVTAMGNSIPTMGNTSYEGEFTSTLK 360  
 DB 301 BEETNKVMPFGPVEPYOTADCVLPKHPREKVTAMGNSIPTMGNTSYEGEFTSTLK 360  
 OY 361 QMPVLVELETVCNVPFSELADEARTAPETLEMGAKIKKAAVGTGETPTADNFMDCSHY 420  
 DB 361 QMPVLVELETVCNVPFSELADEARTAPETLEMGAKIKKAAVGTGETPTADNFMDCSHY 420  
 OY 421 FMPFMRLLQLRNHTSGPVTLYRFDOSBDLINPRIRKSGVGVSHADELTYFFW 480  
 DB 421 FMPFMRLLQLRNHTSGPVTLYRFDOSBDLINPRIRKSGVGVSHADELTYFFW 480  
 OY 481 NOLAKRMPKESREKTYIERMTGIMIOFATTGNDPYSNEIEGMENVSMDPIKKSDEVYKCLN 540  
 DB 481 NOLAKRMPKESREKTYIERMTGIMIOFATTGNDPYSNEIEGMENVSMDPIKKSDEVYKCLN 540  
 OY 541 ISDELKMDVPEMDKIKOMESNEFKHDLF 570  
 DB 541 ISDELKMDVPEMDKIKOMESNEFKHDLF 570

RESULT 8  
 US-09-068-960-13  
 Sequence 13, Application US/09068960A  
 Patent No. 6235715  
 GENERAL INFORMATION:  
 APPLICANT: Commonwealth Scientific and Industrial Resrch. Org.  
 TITLE OF INVENTION: MALATHION CARBOXYESTERASE  
 FILE REFERENCE: Attorney Docet. No. 623515 50179-051  
 CURRENT APPLICATION NUMBER: US/09/068, 960A  
 CURRENT FILING DATE: 1998-05-20  
 EARLIER APPLICATION NUMBER: PCT/AU96/00746  
 EARLIER FILING DATE: 1996-11-22  
 EARLIER APPLICATION NUMBER: AU 6751  
 EARLIER FILING DATE: 1995-11-23  
 NUMBER OF SEQ ID NOS: 43  
 SOFTWARE: Patent In Ver. 2.0  
 SEQ ID NO. 13  
 LENGTH: 570  
 TYPE: PRT  
 ORGANISM: Musca domestica  
 US-09-068-960-13

Seq ID NO: 8 & Seq ID NO: 13  
 Seq comparison of

Query Match 76.48: Score 2348; DB 4; Length 570;  
 Best Local Similarity 74.28; Pred. No. 2,9e-237;  
 Matches 423; Conservative 73; Mismatches 74; Indels 0; Gaps 0;

OY 1 MNPNYSIMKELTKIKCIENKFLNRLTNTETVAETEGKVGKRLTYDDSYSEES 60  
 DB 1 MTELOFIERLKLVCYKCMKNTKTRISTNETOITIDETQIKGVKMYTDDSYSEES 60  
 OY 61 IFYADPVGELRFAKQRTTPADGVDCCNHDKSVQVDEFTGVCSSSEDELTSLYTKN 120  
 DB 61 IFYADPVGELRFAKQRTTPADGVDCCNHDKSVQVDEFTGVCSSSEDELTSLYTKN 120  
 OY 121 LNPETRRPVLVYTHGGXFLIGENHDMGPDYFIKKVYVLINIOYRLGALGFLSLNSED 180  
 DB 121 LNPETRRPVLVYTHGGXFLIGENHDMGPDYFIKKVYVLINIOYRLGALGFLSLNSED 180  
 OY 181 NPGNAGLDQVYALRMKNNKNCANGNDNTITVEGESAGAATHYMLTEOTRGLETHRG 240  
 DB 181 NPGNAGLDQVYALRMKNNKNCANGNDNTITVEGESAGAATHYMLTEOTRGLETHRG 240

OY 241 ILMGNAICPMANTOCORAFETLAKYKGEEDNDKVDLEFLMKANPDOLITKEEKLTL 300  
 DB 241 ILMGNAICPMANTOCORAFETLAKYKGEEDNDKVDLEFLMKANPDOLITKEEKLTL 300  
 OY 301 BEETNKVMPFGPVEPYOTADCVLPKHPREKVTAMGNSIPTMGNTSYEGEFTSTLK 360  
 DB 301 BEETNKVMPFGPVEPYOTADCVLPKHPREKVTAMGNSIPTMGNTSYEGEFTSTLK 360  
 OY 361 QMPVLVELETVCNVPFSELADEARTAPETLEMGAKIKKAAVGTGETPTADNFMDCSHY 420  
 DB 361 QMPVLVELETVCNVPFSELADEARTAPETLEMGAKIKKAAVGTGETPTADNFMDCSHY 420  
 OY 421 FMPFMRLLQLRNHTSGPVTLYRFDOSBDLINPRIRKSGVGVSHADELTYFFW 480  
 DB 421 FMPFMRLLQLRNHTSGPVTLYRFDOSBDLINPRIRKSGVGVSHADELTYFFW 480  
 OY 481 NOLAKRMPKESREKTYIERMTGIMIOFATTGNDPYSNEIEGMENVSMDPIKKSDEVYKCLN 540  
 DB 481 NOLAKRMPKESREKTYIERMTGIMIOFATTGNDPYSNEIEGMENVSMDPIKKSDEVYKCLN 540  
 OY 541 ISDELKMDVPEMDKIKOMESNEFKHDLF 570  
 DB 541 ISDELKMDVPEMDKIKOMESNEFKHDLF 570

RESULT 9  
 US-08-669-524-8  
 Sequence 8, Application US/08669524  
 Patent No. 5843758  
 GENERAL INFORMATION:  
 APPLICANT: RUSSELL, Robyn J.  
 APPLICANT: NEWCOMB, Richard D.  
 APPLICANT: ROBIN, Geoffrey C.  
 APPLICANT: BOYCE, Thomas M.  
 APPLICANT: CAMPBELL, Peter M.  
 APPLICANT: PARKER, Anthony G.  
 APPLICANT: OAKESHOT, John G.  
 TITLE OF INVENTION: ENZYME BASED BIOREMEDIATION  
 NUMBER OF SEQUENCES: 22  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Love Price Leblanc & Becker  
 STREET: 99 Canal Center Plaza, Suite 300  
 CITY: Alexandria  
 STATE: Virginia  
 COUNTRY: USA  
 ZIP: 22314  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/669,524  
 FILING DATE:  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Price, Robert L.  
 REGISTRATION NUMBER: 22,685  
 REFERENCE/DOCKET NUMBER: 1451-021  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703-684-1111  
 TELEFAX: 703-684-1124  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 572 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-669-524-8

Query Match 64.98: Score 1994.5; DB 2; Length 572;